

Application Number: 10/565,573
Amendment Dated: January 11, 2010
Office Action Dated: July 9, 2009

AMENDMENTS TO THE SPECIFICATION

Please amend the paragraph at page 1, lines 4 through 5 to read as shown below:

This application claims priority under 35 U.S.C. § 371 from PCT Patent Application No. PCT/US2004/023867, filed July 26, 2004, which claims priority to ~~of~~ U.S. Provisional Patent Application Ser. No. 60/490,218, filed July 25, 2003, both of which ~~is~~ are herein incorporated by reference in ~~its entirety~~ their entireties.

Please amend the paragraph at page 1, lines 8 through 12 to read as shown below:

This invention relates to a method for producing nitric oxide. More specifically, this invention relates to using ionic exchange resins in the production of nitric oxide. This invention is also directed to using ~~Ph~~ pH adjusters in combination with diazeniumdiolate-containing compounds (NONOates) to produce nitric oxide. The invention is further directed to producing nitric oxide by mixing a cream with a salt.

Please amend the paragraph at page 4, lines 3 through 5 to read as shown below:

The present invention also includes a method for producing nitric oxide comprising producing nitric oxide by adding a ~~Ph~~ pH adjuster to a nanofiber having a diazeniumdiolate functional group.

Please amend the paragraph at page 4, lines 6 through 8 to read as shown below:

Application Number: 10/565,573
Amendment Dated: January 11, 2010
Office Action Dated: July 9, 2009

The present invention further includes a method for producing nitric oxide comprising producing nitric oxide by adding a ~~Ph~~ pH adjuster to a nanoparticle having a diazeniumdiolate functional group.

Please amend the paragraph at page 5, lines 3 through 4 to read as shown below:

A ~~Ph~~ adjuster is a composition that either increases or decreases the ~~Ph~~ pH of a reaction medium.

Please amend the paragraph at page 6, lines 1 through 2 to read as shown below:

This invention is further directed to producing NO by using a ~~Ph~~ pH adjuster used in combination with a diazeniumdiolate-containing composition.

Please amend the paragraph at page 7, lines 1 through 8 to read as shown below:

In still another embodiment, the diazeniumdiolate-containing compound is a polymer having a diazeniundiolate functional group. More preferably, the polymer is a polyethylenimine nanofiber having a diazeniumdioate functional group. More preferably, the nanofiber is an electrospun nanofiber, and any electrospun nanofiber having a diazeniumdiolate functional group can be employed. Preferably, a ~~Ph~~ pH adjuster is added to a nanofiber having a diazeniumdioate functional group in order to produce nitric oxide. The ~~Ph~~ pH adjuster is preferably selected from phosphate, lactate, citrate, or combinations thereof. There is no limitation on useful polymers or ~~Ph~~ pH adjusters that can be employed.

Application Number: 10/565,573
Amendment Dated: January 11, 2010
Office Action Dated: July 9, 2009

Please amend the paragraph at page 7, lines 9 through 13 to read as shown below:

In yet another embodiment, nitric oxide can be produced by adding a ~~Ph~~ pH adjuster to a nanoparticle having a diazeniumdiolate functional group. Preferably, the nanoparticle is made of cellulose, polystyrene, cm cellulose, chitosan or a combination thereof. In this embodiment, the ~~Ph~~ pH adjuster is selected from phosphate, lactate, citrate, or combination thereof. There is no limitation on useful polymers or ~~Ph~~ pH adjusters that can be employed.

Application Number: 10/565,573
Amendment Dated: January 11, 2010
Office Action Dated: July 9, 2009

Please replace the Abstract of the Invention with the Abstract shown below:

Provided is a method for producing nitric oxide that employs an ion exchange resin. Also provided is a method for producing nitric oxide that combines a salt with a gel or cream. A method is provided for producing nitric oxide that combines a pH adjuster with a diazeniumdiolate-containing compound or composition. Additionally, the present invention is also directed to a method for producing nitric oxide comprising the step: producing nitric oxide by adding a Ph adjuster to a nanofiber having a diazeniumdiolate functional group. In still another embodiment, the present invention is directed to a method for producing nitric oxide comprising the step: producing nitric oxide by adding a pH adjuster to a nanoparticle having a diazeniumdiolate functional group.